Bioactive

IL29 (Human) Recombinant Protein

Catalog # P3635 Size 20 ug

Specification

Product Description	Human IL29 (Q8IU54 , 24 a.a. - 200 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	TSKPTTTGKGCHIGRFKSLSPQELASFKKARDALEESLKLKNWSCSSPVFPGNWDLRLLQVRER PVALEAELALTLKVLEAAAGPALEDVLDQPLHTLHHILSQLQACIQPQPTAGPRPRGRLHHWLHRL QEAPKKESAGCLEASVTFNLFRLLTRDLKYVADGNLCLRTSTHPEST
Host	Escherichia coli
Theoretical MW (kDa)	20
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED_{50} is determined in an anti-viral assay using human HepG2 cells infected with EMCV is typica lly 1-5 ng/mL.
Storage Buffer	Lyophilized from 20 mM PB, 130 mM NaCl, pH 7.5
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — IL29

Entrez GeneID	282618
Protein Accession#	Q8IU54
Gene Name	IL29
Gene Alias	IFNL1, IL-29
Gene Description	interleukin 29 (interferon, lambda 1)
Omim ID	607403
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cytokine distantly related to type I interferons and the IL-10 family. This gene, interleukin 28A (IL28A), and interleukin 28B (IL28B) are three closely related cytokine genes that form a cytokine gene cluster on a chromosomal region mapped to 19q13. Expression of the cytokines encoded by the three genes can be induced by viral infection. All three cytokines have been shown to interact with a heterodimeric class II cytokine receptor that consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha (IL28RA). [provided by RefSeq
Other Designations	interferon, lambda 1|interleukin 29

Publication Reference

- IRF-1, RIG-I and MDA5 display potent antiviral activities against norovirus coordinately induced by different types of interferons.

  Dang W, Xu L, Yin Y, Chen S, Wang W, Hakim MS, Chang KO, Peppelenbosch MP, Pan Q.

  Antiviral Research 2018 Jul; 155:48.

  Application: Func, Human, HG23 cells

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway